



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/921,181	08/02/2001		Mark J. Chiappetta	09945-006001 / CTR-3	6104
26161	7590	05/12/2004		EXAM	INER
FISH & R	ICHARD	SON PC	PIHULIC, DANIEL T		
225 FRANI		10		ART UNIT	PAPER NUMBER
BOSTON, MA 02110				3662	

DATE MAILED: 05/12/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		1 4
	Application No.	Applicant(s)
Office Action Summer.	09/921,181	CHIAPETTA, MARK J.
Office Action Summary	Examiner	Art Unit
The SAAU INC. DATE of this account of the same	Daniel Pihulic	3662 .,
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet witi	n the correspondence address
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a report within the statutory minimum of thirty will apply and will expire StX (6) MONT cause the application to become ABA	oly be timely filed (30) days will be considered timely. HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).
Status		
 1) ☐ Responsive to communication(s) filed on 17 Fe 2a) ☐ This action is FINAL. 2b) ☐ This 3) ☐ Since this application is in condition for allowar closed in accordance with the practice under E 	action is non-final. nce except for formal matte	
Disposition of Claims		
4) Claim(s) 20-27,54-61 and 81-88 is/are pending 4a) Of the above claim(s) is/are withdraw 5) Claim(s) 20-27,54-61 and 81-85 is/are allowed 6) Claim(s) 86 is/are rejected. 7) Claim(s) 87 and 88 is/are objected to. 8) Claim(s) are subject to restriction and/or	wn from consideration.	
9) The specification is objected to by the Examine	er.	
10) ☐ The drawing(s) filed on 13 August 2002 is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Explanation is objected.	a)⊠ accepted or b)⊡ obj drawing(s) be held in abeyand ion is required if the drawing(s	e. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Ap rity documents have been in u (PCT Rule 17.2(a)).	oplication No received in this National Stage
Attachment(s)		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)	immary (PTO-413) /Mail Date ormal Patent Application (PTO-152) -

Application Number: 09/921,181

Art Unit: 3662

- 1. Applicant's arguments, filed 2/17/04, with respect to claims 86-88 have been fully considered and are persuasive. Applicant stated that the limitation of the shape of a waveform does not include frequency differences. Applicant's specification discusses waveforms in terms of shape and frequency, thus implying they are different characteristics.
- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claim 86 is rejected under 35 U.S.C. 103(a) as being unpatentable over Takahashi. The Takahashi reference discloses transmitting a waveform having a predetermined shape (12); receive a signal (18 & 19); analyzing the shape of the signal (14); and determining if the signal comprises an echo of the waveform based on analysis of the shape of the signal and the waveform having the predetermined shape as recited in the claims. The difference between the Takahashi reference and the claims is that the claim recites the utilization of a computer program. It was well known in the art to utilize computers and computer programs in echo ranging system. It would have been obvious to modify the Takahashi reference to utilize a computer and a computer program as motivated by the well known characteristics of a computer base systems have such as compact size and lower power consumption to enable the Takahashi system to be smaller and lighter and to use less power.

Application Number: 09/921,181

Art Unit: 3662

Page 2

4. Claims 20-27, 54-61 and 81-85 are allowed.

5. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Daniel Pihulic whose telephone number is 703-306-

4168. The examiner can normally be reached on Monday through Thursday from 7

a.m. to 5 p.m. If attempts to reach the examiner by telephone are unsuccessful, the

examiner's supervisor, Thomas Tarcza, can be reached on 703-306-4171.

The fax phone numbers for the organization where this application or proceeding is

assigned are:

703-872-9306 for official responses, and

703-746-3847 for unofficial communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is 703-308-1113.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published

applications may be obtained from either Private PAIR or Public PAIR. Status

information for unpublished applications is available through Private PAIR only. For

more information about the PAIR system, see http://pair-direct.uspto.gov. Should you

have questions on access to the Private PAIR system, contact the Electronic Business

Center (EBC) at 866-217-9197 (toll-free).

SP

Daniel Pihulic Primary Examiner Art Unit 3662